

Amended Claims

1. (original) An electric motor for powering downhole tools comprising: a first stator;

a second stator;

conductive windings

an axially located rotatable shaft including a first magnetic element and a second magnetic element

a sealed annular chamber defined by a first tube, and a second tube concentrically inside the first tube,

the first and second stators being located in the annular chamber, the first magnetic element being aligned with the first stator and the second magnetic element being aligned with the second stator such that when the windings are energised the stators act on the magnetic elements.

2. (original) An electric motor according to claim 1, wherein the conductive windings comprise a first set of coil windings disposed in the first stator and a second set of coil windings disposed in the second stator.

3. (currently amended) An electric motor according to either ~~claim 1 or claim 2~~ claim 1, wherein there are provided more than two stators located in the annular cavity, and a corresponding number of magnetic elements
4. (currently amended) An electric motor according to any ~~previous-claim~~ claim 1, wherein the second tube is disposed in the outer tube and secured by swaging.
5. (currently amended) An electric motor according to any ~~previous-claim~~ claim 1, wherein the rotatable shaft comprises separately formed shaft elements which are secured together in series.
6. (original) An electric motor according to claim 5, wherein a first shaft element is disposed within the first stator, and a second shaft element is disposed within the second stator.
7. (currently amended) An electric motor according to any ~~previous-claim~~ claim 1, wherein the outer tube comprises separately formed outer tube elements which are secured together in series.
8. (currently amended) An electric motor according to any ~~previous-claim~~ claim 1, wherein the outer tube is at least partially secured to the modules by inward radial deformation.
9. (currently amended) An electric motor according to any ~~previous-claim~~ claim 1, wherein the second tube is made from a non-magnetisable material.
10. (currently amended) An electric motor according to any ~~previous-claim~~ claim 1, wherein the chamber includes a pressure compensation means.

11. (original) An electric motor according to claim 10, wherein the pressure compensation means is provided by the annular seals being axially slidable.

12. (currently amended) An electric motor according to ~~any previous claim~~ claim 1, wherein the connection of the windings to the power supply is enclosed in the sealed chamber.

13. (currently amended) An electric motor according to ~~any previous claim~~ claim 1, wherein the rotor is connected to a pump.

14. (currently amended) An electric motor according to ~~any previous claim~~ claim 1, wherein inner tube forms an internal bore for the passage of well fluids.

15. (original) An electric motor suitable for installing in a borehole for powering downhole tools comprising

a stator including a first set of coil windings

a rotatable shaft including a magnetic element

an annular cavity defined by a first hollow tube, and a second tube concentrically inside the first tube, the second tube including a flowpath,

the stators being located in the annular cavity, the rotatable shaft and the magnetic element being at least partially tubular.

16. (original) An electric motor according to claim 15, wherein the rotatable shaft is located radially outside the stator

with the magnetic element the being aligned with the stator such that the stator when energised can act upon the magnetic element.

17. (currently amended) An electric motor according to ~~either claim 15 or 16~~ claim 15, wherein there are provided more than two stators located in the annular cavity, and a corresponding number of magnetic elements.

18. (currently amended) An electric motor according to ~~any of claims 15 to 17~~ claim 15, wherein the second tube is disposed in the outer tube and secured by swaging.

19. (currently amended) An electric motor according to ~~any of claims 15 to 18~~ claim 15, wherein the rotatable shaft comprises separately formed shaft elements which are secured together in series.

20. (currently amended) An electric motor according to ~~any of claims 15 to 19~~ claim 15, wherein the second tube is made from a non-magnetisable material.

21. (currently amended) An electric motor according to ~~any of claims 15 to 20~~ claim 15, wherein the chamber includes a pressure compensation means.

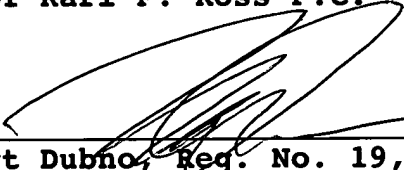
22. (original) An electric motor according to claim 21, wherein the pressure compensation means is provided by the annular seals being axially slidable.

23. (currently amended) An electric motor according to ~~any of claims 15 to 22~~ claim 15, wherein the connection of the windings to a DC supply is enclosed in the sealed chamber.

24. (currently amended) An electric motor according to any
~~of claims 15 to 23~~ claim 15, wherein the rotor is connected to a
pump.

This preliminary amendment is submitted to provide the cross reference of the present US national phase of PCT/GB2003/004009 to the international application according to Rule 78, and to eliminate multiple dependencies in the claims.

Respectfully submitted,
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